

METHODS FOR IDENTIFYING LIGAND SPECIFIC BINDING MOLECULES

ABSTRACT OF THE INVENTION

The present invention provides a method for identifying a binding molecule having selective affinity
5 for a ligand. The method consists of selectively immobilizing a diverse population of binding molecules to a solid support, simultaneously contacting the diverse population immobilized on the solid support with two or more ligands and determining at least one binding
10 molecule which selectively binds to one or more of the ligands. The invention additionally provides a method for identifying an antibody having selective affinity for a tumor antigen. The method consists of selectively immobilizing a diverse population of antibodies to a
15 solid support, simultaneously contacting the diverse population immobilized on the solid support with two or more tumor antigens and determining at least one antibody which selectively binds to one or more of the tumor antigens. The invention also provides an isolated
20 binding polypeptide selective for a tumor antigen. Further provided by the present invention is a Complementarity Determining Region (CDR) or functional fragment thereof of an antibody selective for a tumor antigen.